

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6203613").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/16 17:14
L2	4	("4058430"   "4861417"   "5166092"   "5256244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 17:25
L3	282	257/758,762,765.ccls. and @pd>"20050928"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 17:25
L4	24	damascene and ((step adj coverage) same ALD) and @pd>"20050928"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:45
L5	2	damascene and ((step adj coverage) with '90%') and @pd>"20050928"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 18:10
L6	101	damascene and step adj coverage and @pd>"20050928"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 18:47
L7	23	((dual adj damascene) and (tungsten w/ with seed) and @pd>"20050928"	US-PGPUB; USPAT	OR	OFF	2006/03/16 19:02
L8	0	(damascene and ((step adj coverage) same ALD)).clm.	US-PGPUB	OR	ON	2006/03/16 19:09
L9	0	(damascene same (step adj coverage) same (ALD (atomic adj layer adj deposition))).clm.	US-PGPUB	OR	ON	2006/03/16 19:10
L10	0	(trench same (step adj coverage) same (ALD (atomic adj layer adj deposition))).clm.	US-PGPUB	OR	ON	2006/03/16 19:11
L11	17	(damascene same (ALD (atomic adj layer adj deposition))).clm.	US-PGPUB	OR	ON	2006/03/16 19:12
S1	128	438/628.ccls.	USPAT	OR	OFF	2005/09/28 09:28
S2	97	438/628.ccls. and react\$	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/26 19:25

## EAST Search History

S3	283	438/627.ccls. and react\$	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 10:53
S4	89	438/625.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 11:12
S5	319	438/643.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 14:12
S6	393	438/680.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 14:28
S7	90	438/644.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 14:39
S8	101	438/658.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 14:50
S9	137	438/681.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 15:01
S10	85	438/677.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 15:10
S11	69	438/775.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 15:17
S12	567	438/763.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 15:57
S13	203	438/622.ccls. and react\$ not (reactive adj ion)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2002/03/27 16:00
S14	1	"6200893".pn.	USPAT	OR	OFF	2002/09/21 13:10
S15	28	(dual adj damascene) and (self adj limit\$4) and nitride and barrier	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/02 08:21
S16	21	("4401054"   "4534842"   "4563367"   "4745337"   "5061838"   "5102687"   "5223457"   "5227695"   "5478403"   "5483919"   "5536914"   "5605637"   "5653811"   "5666023"   "5702530"   "5762714"   "5916365"   "6054016"   "6080446"   "6103304"   "6200893").PN.	USPAT	OR	OFF	2002/10/02 08:33

## EAST Search History

S17	0	"6384480".URPN.	USPAT	OR	OFF	2002/10/02 08:45
S18	12	257/7\$.ccls. and ((insulat\$4 or dielectric) with (porous or pores) with (adhesion or glue))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/08 08:11
S19	10	damascene and ((insulat\$4 or dielectric) with (porous or pores) with (adhesion or glue))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/08 08:16
S20	6	damascene and ((insulat\$4 or dielectric) with (porous or pores) same (adhesion or glue) adj layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/08 08:29
S21	7	damascene and ((insulat\$4 or dielectric) same (porous or pores) same (adhesion or glue) adj layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/08 08:32
S22	49	damascene and (((low adj dielectric) or (low-k) or xerogel) same (adhesion or glue) adj layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/08 09:04
S23	42	dual adj damascene and xerogel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/08 09:04
S24	1	"6482733".pn.	USPAT	OR	OFF	2003/03/18 11:08
S25	2	("6727169").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/12 21:46

## EAST Search History

S26	34	("4058430"   "4413022"   "4747367"   "4761269"   "5674781"   "5711811"   "5879459"   "5904565"   "5916365"   "5933761"   "6037258"   "6048790"   "6069068"   "6077775"   "6083818"   "6093638"   "6100184"   "6139700"   "6146517"   "6181012"   "6184128"   "6188134"   "6200893"   "6203613"   "6207567"   "6225213"   "6270572"   "6287965"   "6303523"   "6342448"   "6351039"   "6358829"   "6368954"   "6482733"   "2001/0001742"   "2001/0034123").PN.	USPAT	OR	OFF	2004/10/12 21:25
S27	98	(dual adj damascene) and (ALD (atomic adj layer adj deposition)) and ("".ANG.." angstrom\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 22:56
S28	2	"6727169".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 13:54
S29	73	((("4058430") or ("4413022") or ("4747367") or ("4761269") or ("5674781") or ("5711811") or ("5879459") or ("5904565") or ("5916365") or ("5933761") or ("6037258") or ("6048790") or ("6069068") or ("6077775") or ("6083818") or ("6093638") or ("6100184") or ("6139700") or ("6146517") or ("6181012") or ("6184128") or ("6188134") or ("6200893") or ("6203613") or ("6207567") or ("6225213") or ("6270572") or ("6287965") or ("6303523") or ("6342448") or ("6358829") or ("6351039") or ("6368954") or ("6482733") or ("2001001742") or ("20010034123")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 14:59
S30	2	("20010011742").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 14:59

## EAST Search History

S31	826	(dual adj damascene) and "'0.25"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 16:08
S32	69	(dual adj damascene) and ("0.35" adj (micron\$1 micrometer\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 16:09
S33	160	(ald (atomic adj layer adj deposition)) and (step adj coverage)	USPAT	OR	OFF	2004/10/13 17:46
S34	1327	dual adj damascene and barrier and aluminum and copper and seed	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 19:15
S35	169	dual adj damascene and barrier and aluminum and copper and seed and (ald (atomic adj layer adj deposition))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 19:16
S36	2181	(electroplat\$3 or electroless) with (tungsten W)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 22:01
S37	184	(dual adj damascene) and (electroplat\$3 or electroless) with (tungsten W)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/13 22:01
S38	105	(dual adj damascene) and (high with ratio) and (ald atomic adj layer adj deposition)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/14 16:19
S39	105	(dual adj damascene) and (high with ratio) and (ald (atomic adj layer adj deposition))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/14 16:39
S40	0	(dual adj damascene) and ('9:1') and (ald (atomic adj layer adj deposition))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/14 16:39

## EAST Search History

S41	56	(dual adj damascene) and ('4:1' '5:1' '6:1' '7:1' '8:1' '9:1' '10:1' '11:1' '12:1' '13:1' '14:1') and (ald (atomic adj layer adj deposition))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/10/14 16:41
S42	134	(dual adj damascene) and (ALD (atomic adj layer adj deposition)) and ("."ANG.." angstrom\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 23:01
S43	190	(dual adj damascene) and (ALD (atomic adj layer adj deposition)) and (nanometers nm)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/08 23:01
S44	3130	(dual adj damascene) same copper	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/04/12 18:29
S45	404	(dual adj damascene) same copper and @ad<"19991015"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2005/04/12 18:29
S46	5210	dual adj damascene and (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 12:51
S47	4582	dual adj damascene and lin\$3 with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 12:52
S48	509	dual adj damascene and lin\$3 with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 12:57
S49	462	dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 13:00
S50	462	dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 13:02

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S51	4477	@ad<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 13:04
S52	4471	@pd<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 13:05
S53	4543	@pd>"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 13:05
S54	4477	@ad<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/04/13 13:07
S55	2367	@ad<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN)	US-PGPUB; USPAT	OR	OFF	2005/04/13 13:08
S56	454	dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 13:11
S57	192	dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @pd<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 13:13
S58	7	dual adj damascene and ((lining liner) with ((tantalum Ta) and (Tungsten W) and (titanium Ti) with nitride) or (TaN and TiN and WN)) and @pd<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 13:16
S59	119	dual adj damascene and ((lining liner) with ((tantalum Ta) and (Tungsten W) and (titanium Ti) with nitride) or (TaN and TiN and WN)) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 13:38
S60	109	((dual adj damascene) with aluminum) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 14:02
S61	2	((dual adj damascene) with (tungsten w) with seed) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 14:03

## EAST Search History

S62	38	((dual adj damascene) and (tungsten w) with seed) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2006/03/16 19:01
S63	0	((dual adj damascene) and '2:2' with seed) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 14:28
S64	4	((dual adj damascene) and '2:1' with seed) and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 14:28
S65	36	(dual adj damascene) and '2:1' and @ad<"19991015"	US-PGPUB; USPAT	OR	OFF	2005/04/13 14:29
S66	13075	step adj coverage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/28 09:28
S67	1239	damascene and step adj coverage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 18:15
S68	0	damascene and ((step adj coverage) with '90')	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/28 09:37
S69	26	damascene and ((step adj coverage) with '90%')	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 17:47
S70	98	damascene and ((step adj coverage) same ALD)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/16 19:03

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